

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
ARTESIA DISTRICT  
OCD Artesia  
OCT 24 2017FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such**5. Lease Serial No.  
NMLC028793C

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
NMNM88525X8. Well Name and No.  
BURCH KEELY UNIT 1149. API Well No.  
30-015-03064-00-S110. Field and Pool or Exploratory Area  
GRAYBURG11. County or Parish, State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

## 1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION2. Name of Operator  
COG OPERATING LLCContact: ABIGAIL MONTGOMERY  
E-Mail: Abbym@bcmmandassociates.com3a. Address  
600 W ILLINOIS AVENUE  
MIDLAND, TX 797013b. Phone No. (include area code)  
Ph: 432-580-71614. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 23 T17S R29E SESE 660FSL 660FEL

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

## TYPE OF ACTION

- ☒
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

- ☐
- Acidize
- 
- ☐
- Alter Casing
- 
- ☐
- Casing Repair
- 
- ☐
- Change Plans
- 
- ☐
- Convert to Injection

- ☐
- Deepen
- 
- ☐
- Hydraulic Fracturing
- 
- ☐
- New Construction
- 
- ☒
- Plug and Abandon
- 
- ☐
- Plug Back

- ☐
- Production (Start/Resume)
- 
- ☐
- Reclamation
- 
- ☐
- Recomplete
- 
- ☐
- Temporarily Abandon
- 
- ☐
- Water Disposal

- ☐
- Water Shut-Off
- 
- ☐
- Well Integrity
- 
- ☐
- Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

1. Tag 7" CIBP @ 2509'. Circulate hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 2509-2409'.
2. Perf & Sqz 50 sx cmt @ 1855-1755'. (Queen)
3. Perf & Sqz 50 sx cmt @ 980-880'. WOC & Tag (Yates)
4. Perf & Sqz 80 sx cmt @ 440'-Surface.
5. Cut off well head, verify cmt to surface, weld on Underground Dry Hole Marker.

PC 10-24-17  
Accepted for record - NMOCDRECLAMATION PROCEDURE  
ATTACHEDSEE ATTACHED FOR  
CONDITIONS OF APPROVAL*Below ground level dry hole marker required*

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #388733 verified by the BLM Well Information System

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by PRISCILLA PEREZ on 10/03/2017 (18PP0106SE)

Name (Printed/Typed) ABIGAIL MONTGOMERY

Title AGENT

Signature (Electronic Submission)

Date 09/18/2017

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

*James P. Ames*

Title

*Supv. PET*

Date

*10-13-17*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

*CFO*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

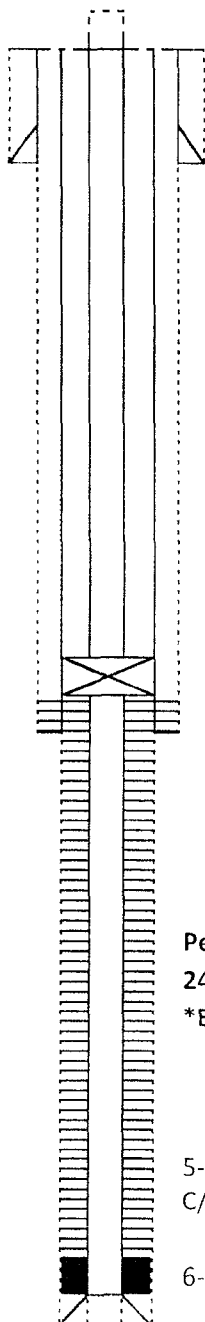
\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

COG Operating LLC

Lease & Well # **Burch Keely Unit #114**  
API: **30-015-03064**

Eddy County, NM  
Sec 23, T17S, R29E  
660' FEL & 660' FSL

Elevation - 3581' DF  
Spud Date - 10/01/1949



8-1/4" 28# @ 390'

C/w 75 sx. Circ to surface

*Mud to surf*

*T/salt 350*

Well History:

4/4/1966 - First Injection

10/22/2010 - COG acquired well from Marbob

3/22/2017 - FAILED Mechanical Integrity Test (MIT)

*B/salt 765*

Packer @ ~2350'

7" 24# @ 2509'

C/w 100 sx. TOC @ 1287'

*Mud to surf*

Perfs (Seven Rivers, Queen, Grayburg, San Andres)

2400-3291'

\*Estimates, No completion records available

5-1/2" 14# Liner @ 2445-3291'

C/w 35 sx. TOC @ 2860'

PBTD - 3374'  
TD - 3493'

6-1/4" Open hole 3291-3374'

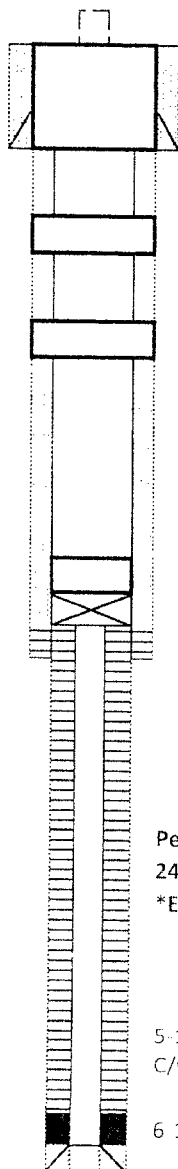
*32.814 6248*  
*-1001 0349938*

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**BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

**Permanent Abandonment of Federal Wells  
Conditions of Approval (LPC Habitat)**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted